



Functional Independence Mathematics

Official Released Items

Grade 4

**Fall 2006
Official Released Items**

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The Grade 4 Functional Independence Mathematics Assessment was administered for the first time in Fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will annually release a portion of the items that are administered on the assessment. This booklet contains released items from the Fall 2006 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items administered on the Fall 2006 Grade 4 assessment booklet. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

Functional Independence Mathematics Grade 4

Mathematics Strand	Number of Core Items
Numbers and Operations	16
Measurement	8
Geometry	4
Data Analysis	2
Total Core Items/Points	30
Released Items	10 (Numbers vary by strand and topic.)

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

R1 What number is **missing** in the pattern?

10, , **30,** **40,** **50**

A 15




B 20

C 25

90001001

Use the figure below to answer question **R2**.



R2 The triangle  is _____ the circle  and the square .

A above

B between

C under

90002006

Use the picture below to answer question **R3**.



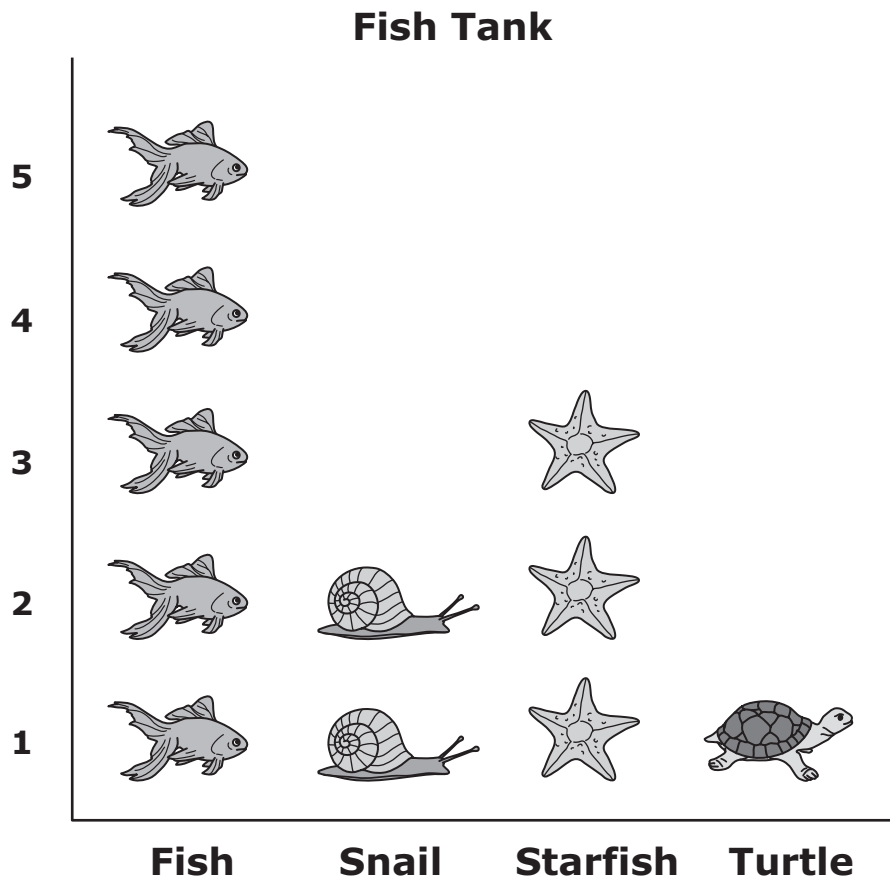
R3 There are 4 balls in the picture.

What other object is shown exactly 4 times?

- A** pencil
- B** butterfly
- C** flower

90004001

Use the graph below to answer question **R4**.



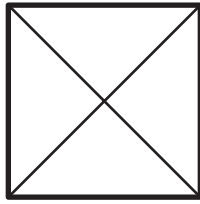
R4 How many starfish are in the tank?

- A** 1
- B** 3
- C** 5

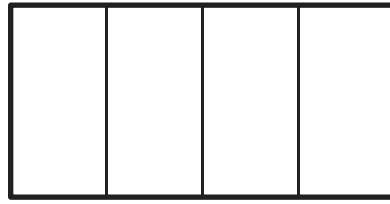
Use the shapes below to answer question **R5**.



circle



square



rectangle

R5 Which two shapes have been divided into the **same** number of pieces?

- A** circle and square
- B** circle and rectangle
- C** square and rectangle

20002021

R6 Compare these numbers.

10 **40**

- A** 10 is **less** than 40.
- B** 10 is **equal** to 40.
- C** 10 is **greater** than 40.

90004046

Use the coin below to answer question **R7**.



R7 What is the value of this coin?

- A** 1¢
- B** 5¢
- C** 25¢

20002035

R8 Tom had 5 pieces of candy.

He ate 2 pieces.

How many pieces are **left**?

A 2 pieces

B 3 pieces

C 5 pieces

90004008

R9 Bread costs \$1.

Milk costs \$2.

How much do they cost **altogether**?

A \$1

B \$2

C \$3

90004010

R10 What number belongs in the blank?

$$4 + \underline{\hspace{1cm}} = 6$$

A 1

B 2

C 4

90004005



Do Not Continue.



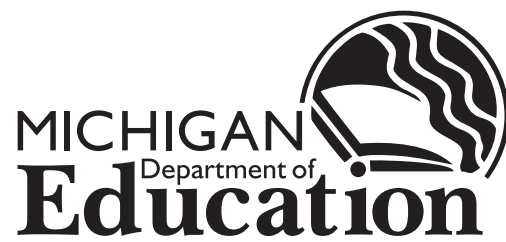
Do not continue until instructed to do so.

Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

Because the assessment was administered during the **fall** of the school year, only content from the *previous* grade level was measured on the assessment. For example, items eligible for the Grade 4 assessment will measure the Grade 3 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at **www.mi.gov/mi-access**.

Released Item number	EGLCE Code	STRAND or Abbreviated Extended GLCE Descriptor	Answer Key
		DATA AND PROBABILITY	
R4	D.RE.03.EG02	Read pictographs	B
		GEOMETRY	
R2	G.LO.03.EG02	Use relative position of objects on a plane and in space	B
		MEASUREMENT	
R7	M.UN.03.EG07	Identify different denominations of coins and bills	A
		NUMBERS AND OPERATIONS	
R1	N.MR.03.EG09	Create, describe, and extend number patterns	B
R3	N.ME.03.EG02	Recognize representations for whole numbers to 100	C
R5	N.ME.03.EG02	Recognize representations for whole numbers to 100	C
R6	N.ME.03.EG05	Compare and order numbers to 100	A
R8	N.FL.03.EG12	Know all the addition facts up to $10 + 10$	B
R9	N.FL.03.EG14	Add up to three one-digit numbers	C
R10	N.MR.03.EG13	Apply knowledge of fact families	B



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